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SEG news release

Society of Exploration Geophysicists

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MONTHLY SEISMIC CREW COUNT

(Month of November, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased for the second consecutive month during November. The land crew total remained the same at 109, and the marine crew decreased by one for a net decrease of one crew to a total of 129.

The November total (129) represents a decrease of 1% from last month, a 17% decrease from November, 1988, a 35% decrease from November, 1987, an 18% decrease from November, 1986, a 63% decrease from November, 1985, **a 74% decrease from November, 1984, and a decrease of 74% from the same month in 1983.**

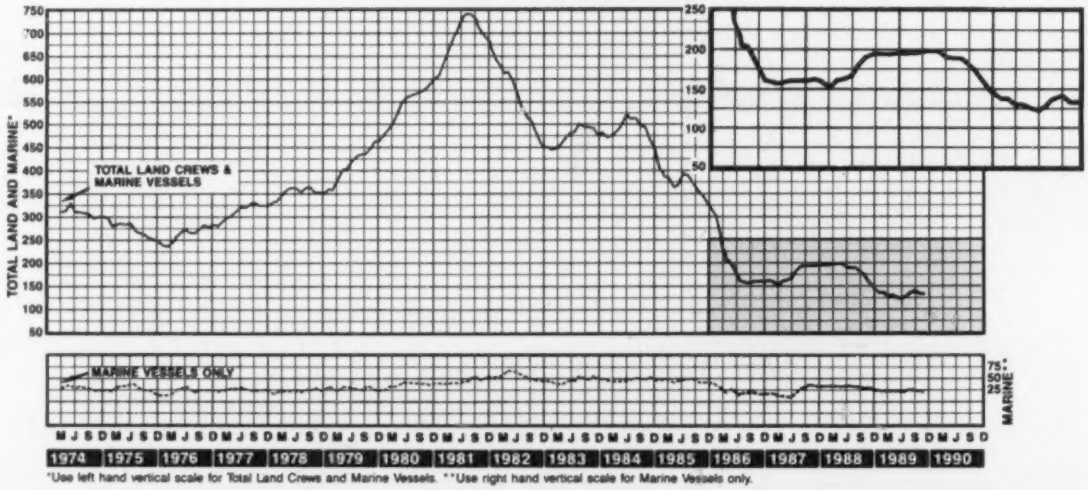
During November, three contractors were operating three of the 99 land crews and none of the seventeen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'88	Nov.'87	Nov.'86	Nov.'85	Nov.'84	Nov.'83
	129	130	155	198	158	346	493	495

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	This Mo.	Last Mo.	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983
37 Contr's:	99	100	114	155	121	273	407	408	17	18	25	25	15	35	42	42
6 Oil Co's:	10	9	13	15	18	32	37	38	3	3	3	3	4	6	7	7
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	109	109	127	170	139	305	444	446	20	21	28	28	19	41	49	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

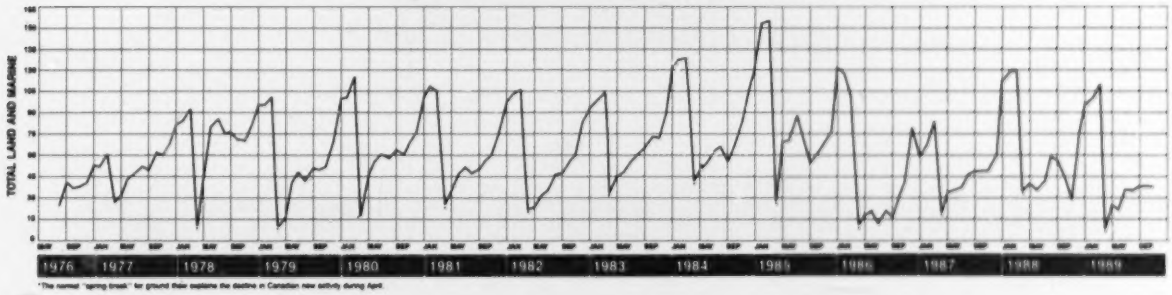
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

November, 1989 (October figures in parentheses)

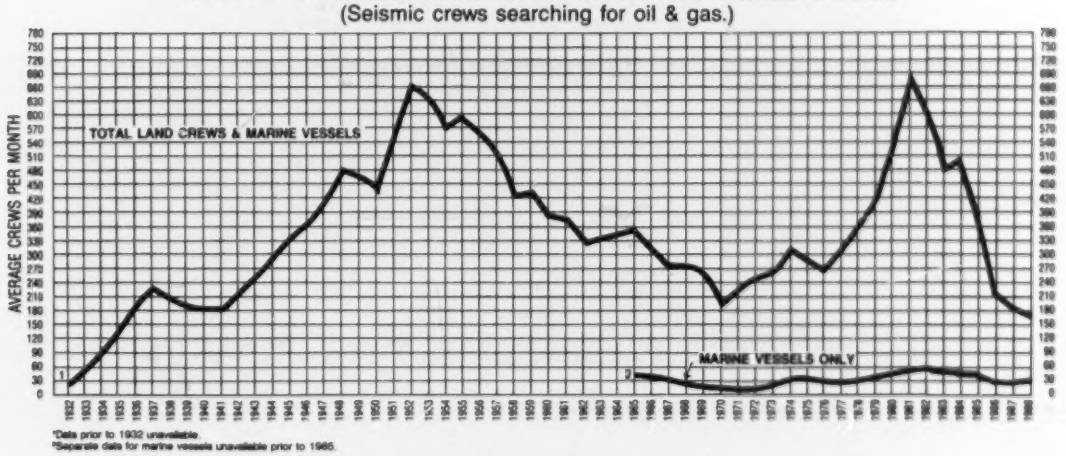
	Land Crews	Marine Crews
25 Contractors:	39 (36)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	40 (37)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1985.